

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 04126079 A  
(43) Date of publication of application: 27.04.1992

(51) Int. Cl C12N 9/48  
//(C12N 9/48, C12R 1:645)

(21) Application number: 02244780

(22) Date of filing: 14.09.1990

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(54) CARBOXYPEPTIDASE B-LIKE ENZYME  
ORIGINATED FROM MICROORGANISM

(57) Abstract:

PURPOSE: To obtain a carboxypeptidase B-like enzyme suitable for the production on industrial scale by culturing a microbial strain belonging to genus *Chaetomium*.

CONSTITUTION: A microbial strain belonging to genus *Chaetomium* and capable of producing carboxypeptidase, e.g. *Chaetomium* sp. F-33 (FERM P-

11711) is cultured and the objective carboxypeptidase B-like enzyme accumulated in the bacterial cell is collected therefrom. The enzyme hydrolyzes and isolates the terminal arginine or lysine of a peptide having arginine or lysine as carboxy terminal. It has an optimum pH of about 8.5 (in tris-HCl buffer solution), an optimum temperature of 55°C, a stable pH range of 7-10 (25°C, 9hr), a thermal stability to retain 100% activity at 4°C and pH 7.5 after 1 year and 90% activity at 55°C after 5hr and a molecular weight of about 450,000.

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